

What is claimed is:

Sub  
ATT 1. An underground facility having a dehumidification system comprising:

5 an inside wall departing from a wall of the underground facility towards an inside area with a distance;

a buffering space formed between the wall and the inside wall, so that the inside wall divides the buffering space and a room of the underground facility and;

10 a ventilation means by which air can be circulated between the room and the buffering space.

2. The underground facility according to the claim 1, wherein the inside wall comprises a heat insulating material.

5 3. The underground facility according to the claim 1, wherein the surface of the inside wall facing to the buffering space comprises a waterproof material.

20 4. The underground facility according to the claim 1, wherein the ventilation means comprising:

a lower ventilation window at the lower position of the inside wall;

an upper ventilation window at the upper position of the inside wall and;

25 a ventilation fan exhausting the inflow air from the room into the buffering space through the lower ventilation window and back to the room through the upper ventilation window.

30 5. The underground facility according to the claim 4 further comprising a heat area wherein the exhausted air from the buffering

space is heated up similar to the temperature of the room before flowing into the room of the underground facility.

Sub  
A1  
over

6. The underground facility according to the claim 1 further comprising a condensation inductor installed in the buffering space.

5

7. The underground facility according to the claim 6, wherein the condensation inductor comprises at least one from steel, stainless steel, aluminum and copper.

10

8. The underground facility according to the claim 6, wherein the condensation inductor has a shape as maximum surface area as possible and as not hindering the flow of the air circulation as possible such as waved sheet, chain, honey comb type panel.

15

9. The underground facility according to the claim 6, wherein the condensation inductor include a concrete surface having a ridge and furrow shape.

20

10. The underground facility according to the claim 1 further comprising a heat area connected to the ventilation means wherein the being dry air in the buffer space is heated up to the temperature of the room of the underground facility.

25

11. The underground facility according to the claim 10 further comprising a thermal collector from the sun or an outer atmosphere and a heat transfer means transferring the heat to the heat area.

12. A method for dehumidification in the underground facility comprising steps of:

30

dividing the inside space of the underground facility into two

